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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/512,511	02/24/2000	Jalil Fadavi-Ardekani	FADAVI-ARDEKANI25-14-2	5581

7590 03/24/2004

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EXAMINER

PAN, DANIEL H

ART UNIT	PAPER NUMBER
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2183

12

DATE MAILED: 03/24/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/512,511

Applicant(s)

FADAVI-ARDEKANI ET AL.

Examiner

jam

Art Unit

MD

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 04 March 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3 and 6 is/are rejected.
- 7) ☒ Claim(s) 4,5,7 and 8 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 24 February 2000 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

1. Claims 1-8 are presented for examination.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1, 2 are rejected under 35 U.S.C. 102(e) as being anticipated by Kaplan et al. (6,704,871) .

3. As to claim 1, Kaplan discloses a digital signal processing system comprising at least :

a) hardware accelerator (see fig.1, col.6, lines 13-27);

b) a parameter RAM [kernel RAM 32] coupled to the hardware accelerator adapted exclusively for storing data [keyset] for populating variables of programming instructions [secure kernel] for use in programming instructions [secure kernel] stored elsewhere [ROM] and used by the hardware accelerator [28] (e.g. see the keyset used by the accelerator in col.6, lines 13-50, see also the segments of the internal data RAM in col.10, lines 1-12, see also the data RAM and program RAM in col.5, lines 6-20 for the background teaching of the storage of the data in data RAM and program RAM).

4. As to claim 2, Kaplan also included at least 1 k x 16 bit RAM (e.g. see fig.1).

5. Claims 3,6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kaplan (6,704,871) in view of Hoekstra (5,883,907).

As to claims 3, 6, the limitations of claims 1,2 have been discussed in paragraph # 3,4, therefore, it will not be repeated herein. Kaplan did not specifically show the plurality of ADSL lines as claimed. However, Hoekstra disclosed a plurality of ADSL lines (e.g. see the ADSL transceivers in fig.1 [26] , col.2lines 48-54). It would have been obvious to one of ordinary skill in the art to use Hoekstra in Kaplan for including the plurality of ADSL lines as claimed because the use of Hoekstra could provide the control ability of Kaplan to adapt to multiplicity of the ADSL lines , such as different asymmetric speeds at a given system, thereby expanding the processing structure of the hardware accelerator in Kaplan, and it could be readily achieved by configuring the specific communication parameters of respective ADSL lines of Hoekstra into Kaplan so that the plurality of the ADSL lines could be recognized by Kaplan and because Kaplan did disclose ADSL connection to its system (e.g. see col.5, lines 12-14), no specific number of the ADSL lines was recited, but it taught the use of his coprocessor in network applications (e.g. se col.2, lines 30-35) , therefore it would have suggested one of ordinary skill in the art to include the multiple ADSL lines for adapting to the network format, and in doing so, provided a motivation. None of the prior art of record further teaches the selectively configurable storage of at least eight ADSL lines.

6. Claims 4,7 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

7. Claims 5, 8 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. None of the prior art of record further teaches the selectively configurable allocation of the sufficient memory per ADSL line to support each ADSL line employed.

8. Hoekstra (5,883,907) was cited to applicant in a previous action, therefore, copy of this patent is not provided herein.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dan Pan whose telephone number is 703 305 9696. The examiner can normally be reached on M-F from 8:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chan, can be reached on 703 305 9712. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

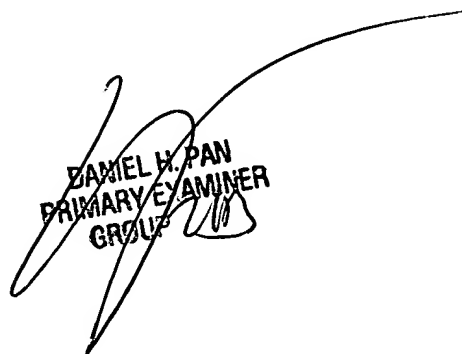
Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should

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you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


DANIEL H. PAN
PRIMARY EXAMINER
GROUP